## Python Machine learning Labs

Good moing! We start at 10:00

Data Sources - Excel/(SV/Tabulardata sheets \_ Databases

— Web

Setup (1) ้งห

The Setup (2) CSV アソル・ハ

## SALITE - DB is stored on a file - light weight DB V- No installation or configuration X- Socurity issues

DB (onnection 59127 MSSQL Sire Connect (f:le path Connect (Aburt)

Break Back at 11:15

Feature Espirporing - Fill missing values - Dior columns - Arry timpormations - Dimensishality Reduction

## Dinewishalitz Reduction (1)

Titanic O Name frat mage

Dimensionalitz Reduction (2) Principle Couperent Minalylis (PCA) 2-D featurs h features h dimensions 2-D 5 pace

R + (1) Feature Selection algorithm (Recuisive Frature Extraction) n features h Fettures クーコトット・シャンナルトラットのトラート

( lust pring (1) allaborative USER 1 basket ball PROFILE 2

(lystoring (2) Netglix USER 1 USER 3 -Piratersf Rom - rom - likes Huph the Conston Grant Love Actually 1/3/13/ (01/ Rob- (um)

Lunch Back of 14:00 missing Ager (1) (1, Cemale) Filling Pissing Ages (2)

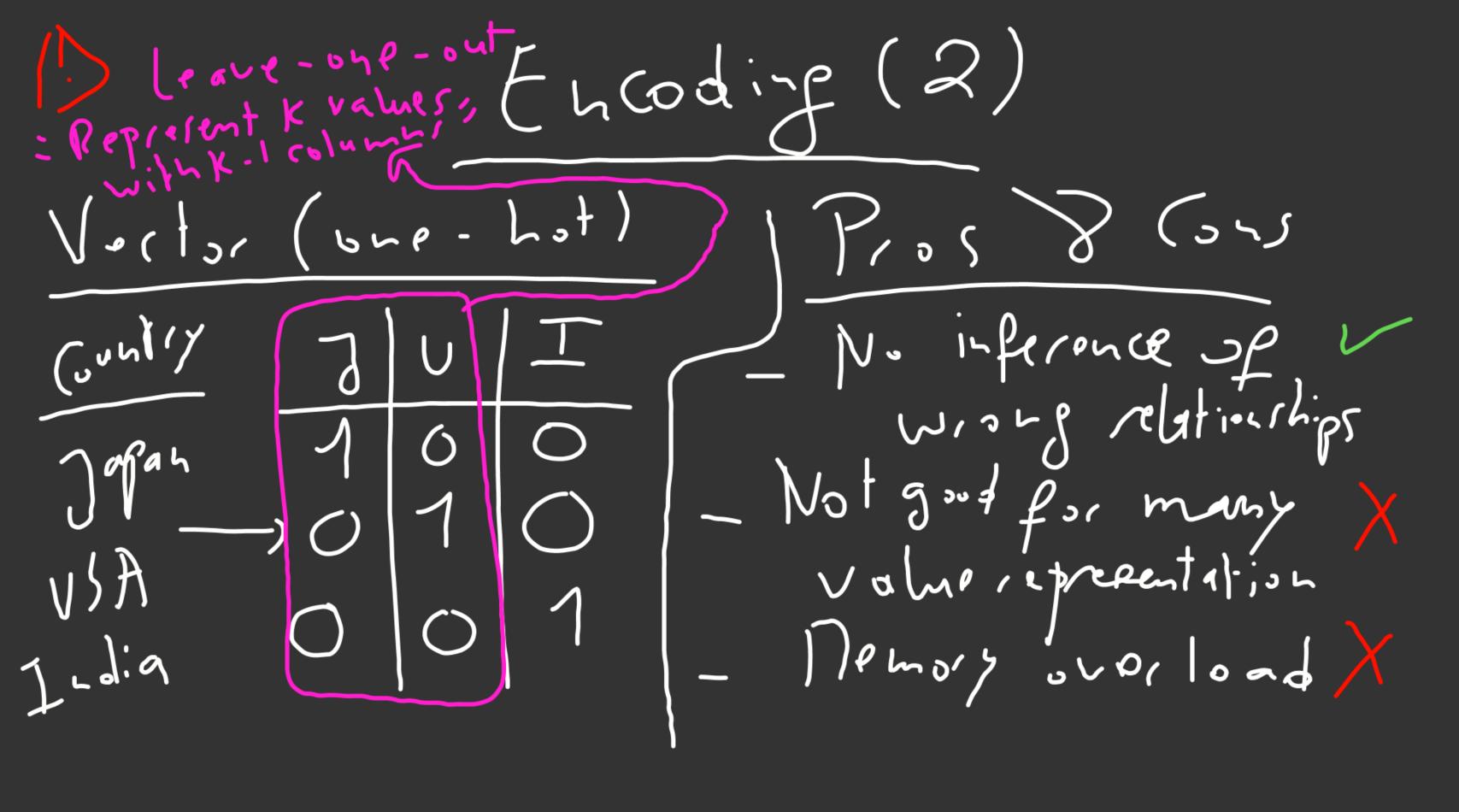
Dala Filling

Break Back at 15:05

## Features

Numerical ( ~ tepo,:ca) \_ Disciete \_ Nominal e.g., Japan, USA,... e.g. 1, 2, 3... - Or 1:-a - (sntinuous P.g., high, medin, low... e.g., 1.1, 2.1, - Free text e.p., summorr of a book

Encoding (1) Pros 8 Cons Label - Numerical Count 1/ J m > 1 \_ Goodformany values u  $USA \rightarrow 2$ (an infer wrolf 1-dia -> 3 relationships (Uralinal)



(3) male Lem ale